P373 313 116 File

State of Illinois
ENVIRONMENTAL PROTECTION AGENCY

Mary A. Gade, Director
217/785-8604

2200 Churchill Road, Springfield, IL 62794-9276

February 4, 1993

US EPA RECORDS CENTER REGION 5
1002279

Southern Illinois University - Edwardsville
Attn: David McDonald
Science Building
Edwardsville, IL 62026

Refer to: 1190255002 -- Madison County
Southern Illinois University Science Bldg.
Closure Plan Approved: April 20, 1992
Closure Log #: C-619
Part A #: 148
ILD006331342
RCRA CLOSURE

Dear Mr. McDonald:

The subject hazardous waste management facility was inspected by a representative of this Agency on January 22, 1993. The inspection revealed that the closure activity was completed in accordance with the approved closure plan dated April 20, 1992.

Certification that the Hazardous Waste Container Storage Area (S01) and the Hazardous Waste Treatment Unit (T04) have been closed in accordance with the approved closure plan by the owner/operator, Southern Illinois University - Edwardsville, and an independent registered professional engineer, Randall L. Patchett P.E., of Illinois was received at this Agency December 16, 1992.

The Agency has determined that the closure of the Hazardous Waste Container Storage Area (S01) and the Hazardous Waste Treatment Unit (T04) has apparently met the requirements of Interim Status Standards, 35 Ill. Admin. Code, Part 725 (40 CFR, Part 265). Please note, the Agency has withdrawn your Part A permit application.

This facility must continue to meet requirements of 35 Ill. Adm. Code Parts 722 and 728.

If you have any questions, please contact Chris Cahnovsky at 618/346-5120.

Sincerely,

Glenn D. Savage

Glenn D. Savage, Manager
Field Operations Section
Division of Land Pollution Control
Bureau of Land

GDS:TJM:sjd
JR JK

cc: USEPA Region V, George Hamper
USEPA Region V, Kelley Moore
USEPA Region V, Jane Ratcliffe
Randall L. Patchett

bcc: Division File
Collinsville Region
Jim Moore
Jerry Kuhn
John Riekstins

RECEIVED
WMD RECORD CENTER
FEB 24 1995

CLOSURE DOCUMENTATION REPORT

FOR THE

HAZARDOUS WASTE MANAGEMENT PROGRAM

SCIENCE BUILDING
ROOMS: SL1209 AND SL0308
SOUTHERN ILLINOIS UNIVERSITY AT EDWARDSVILLE
EDWARDSVILLE, ILLINOIS

Prepared by:

SEC DONOHUE, INC.
1240 E. DIEHL ROAD
NAPERVILLE, ILLINOIS 60563

DECEMBER 1992

Illinois Environmental Protection Agency · P.O. Box 19276, Springfield, IL 62794-9276

ATTACHMENT

This statement is to be completed by both the responsible officer and by the registered professional engineer upon completion of closure. Submit one copy of the certification with original signatures and three additional copies.

Closure Certification Statement

Closure Log C-619

The hazardous waste container storage (S01) and treatment (T04) units at the facility described in this document have been closed in accordance with the specifications in the approved closure plan. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

ILD006331342
USEPA ID Number

Southern Illinois University-Edwardsville
Facility Name

Signature of Owner/Operator

Benjamin F. Quillan, V.P. for Admin.
Name and Title

Randall L. Patchett 12/09/92
Signature of Registered P.E.

Randall L. Patchett 62-046944
Name of Registered P.E. and Illinois Registration Number

12/14/92
Date

JR:dks/1102r, 101

RANDALL L. PATCHETT 062-046944 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

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1.0 INTRODUCTION

Southern Illinois University at Edwardsville (SIU-E) began a Hazardous Waste Management Program in 1987. A Part A application to treat hazardous waste was submitted to the Illinois Environmental Protection Agency (IEPA) on March 28, 1987. The deadline to submit a Part B application has passed, therefore the areas of hazardous waste treatment and storage were required to go through the RCRA closure process. The areas at SIU-E that were listed on the Part A application were the Treatment Area (room SL1209) and the Storage Area (room SL0308).

A plan to close the Treatment Area (T04) and Storage Area (SO1) was approved by the IEPA in April 1992. The Closure Plan provided the guidelines to accomplish a "clean" closure and a detailed description of the activities required in order to successfully decontaminate the treatment and storage areas.

2.0 DECONTAMINATION ACTIVITIES

In accordance with the Closure Plan approved by the IEPA on April 20, 1982, decontamination of the Treatment Area (SL 1209) and Storage Area (SL 0308) was performed on October 29, 1992. Chemical Waste Management - Remedial Services Group (CWM-RSG) was contracted by SIU-E to provide closure activities and hazardous waste disposal. SEC Donohue was retained to provide independent engineering oversight of the closure activities and to prepare and certify the Closure Documentation Report.

Closure of the Treatment Area began with a visual inspection by SEC Donohue of the laboratory floor, bench tops and fume hoods. The condition of the bench tops and fume hoods was noted. The laboratory floor was visually inspected for cracks and defective construction joints. No cracks or defective construction joints were observed. Photographs of the bench tops, fume hoods and floor were taken to document their condition prior to decontamination activities. Photographs of the Treatment Area prior to decontamination are presented in Appendix A.

Following the visual inspection CWM-RSG prepared the Treatment Area for decontamination. All of the sink and fume hood drains were plugged in order to contain waste generated during decontamination activities. Openings near the floor, such as vents and doorways were also sealed with plastic and duct tape. The electrical outlets were sealed and an electrician disconnected all non-essential power.

Following the preparation of the Treatment Area CWM-RSG began scrubbing the bench tops, fume hoods and floor. Simple Green™ detergent and brushes were used to clean all textured surfaces. The surfaces were also pressure washed using potable water from the university and a portable pressure washer. The waste generated during the cleanup was vacuumed directly into 55-gallon drums. After the surfaces were scrubbed and pressure washed, they were rinsed using the pressure washer. The first rinsate was vacuumed into the 55-gallon drum and the rinsing procedure was repeated two more times. Photographs of the closure activities were taken to document all critical tasks and are presented in Appendix A. Samples of the third rinsate were collected in accordance with the Closure Plan for laboratory analysis.

Following decontamination activities, SEC Donohue inspected the lab benches, fume hoods and floor. No cracks or defective construction joints were noticed during inspection of the floor. Photographs taken to document the condition of the surfaces after decontamination are presented in Appendix A. A chronological summary of the Treatment Area closure activities is presented in Table 1.

Closure of the Storage Area (SL 0308) began with an inspection by SEC Donohue. The concrete floor was visually inspected for cracks or defective construction joints that might allow waste to migrate into the soil beneath the Storage Area. No cracks or defective construction joints were identified during the inspection and closure proceeded. Photographs of the Storage Area were taken to document the condition prior to decontamination. CWM-RSG scrubbed the floor with brushes and Simple Green™ detergent. The floor of the Storage Area was pressure washed in the same manner as the Treatment Area. The waste was vacuumed directly into 55-gallon drums.

TABLE 1

CHRONOLOGICAL SUMMARY OF TREATMENT AREA (SL 1209) CLOSURE ACTIVITIES OCTOBER 29, 1992

TIME	EVENT
08:00	Initial Inspection
08:15	Cleanup Preparation
09:45	Scrubbing and Pressure Washing Began
11:30	First Rinsate was Initiated
12:00	Broke for Lunch
13:00	Second Rinsate was Initiated
14:30	Third Rinsate was Initiated
15:00	Samples were Collected
15:20	Final Inspection

Once the waste generated during scrubbing and pressure washing was collected, the floor was rinsed using the pressure washer and the waste was vacuumed into a 55-gallon drum. The rinsing procedure was repeated two more times. Photographs taken during the closure activities are presented in Appendix A.

Samples of the third rinsate were collected in accordance with the Closure Plan. Finally, the Storage Area floor was visually inspected by SEC Donohue. No cracks were observed during the inspection. Photographs were taken to document the condition of the floor after decontamination. A chronological summary of the Storage Area closure activities is presented in Table 2. The total cost of the closure operation was $16,600. A summary of the closure activity costs is presented in Table 3.

3.0 SAMPLING AND ANALYSIS

In order to verify that the cleanup was successful, several samples were collected from the final rinsate of the Treatment Area (SL 1209) and Storage Area (SL 0308). Rinsate was collected from the bench tops, fume hoods and floors in accordance with the Closure Plan and deposited into clean sample jars. A summary of the samples taken is presented in Table 4. The rinsate samples were taken to Envirometrics in Maryland Heights, Missouri for analysis. Copies of the Chain-of-Custody forms are presented in Appendix B. Sampling and analysis was performed in accordance with U.S. EPA's SW-846 "Testing Methods for Evaluating Solid Waste, Physical/Chemical Methods". The test methodologies are presented in Attachment 6 of the Closure Plan. A summary of the parameters tested and associated test methods is presented in Table 5. Results of the laboratory analysis are presented in Appendix C.

The waste collected in the drums was sampled to determine the disposal criteria. Samples were extracted from each of the four drums using a thief tube and composited in two one-quart jars. The waste samples were taken to Chemical Waste Management's Riverdale Technical Center for analysis. Copies of the Chain-of-Custody forms for the waste samples are presented in Appendix B.

TABLE 2

CHRONOLOGICAL SUMMARY OF STORAGE AREA CLOSURE ACTIVITIES OCTOBER 29, 1992

TIME	EVENT
15:55	Initial Inspection
16:00	Cleanup Preparation
16:25	Scrubbing and Pressure Washing Began
16:50	First Rinsate was Initiated
17:05	Second Rinsate was Initiated
17:15	Third Rinsate was Initiated
17:25	Samples were Collected
17:40	Final Inspection

TABLE 3

SUMMARY OF CLOSURE ACTIVITY COSTS

ACTIVITY	COST
Decontamination Labor and Equipment	$ 4,100
Laboratory Analysis of Rinsate and Waste Samples	$ 4,350
Drums and Transportation	$ 450
Waste Disposal	$ 1,700
Independent Professional Engineer Oversight, Review and Certification	$ 5,000
TOTAL	**$15,600**

TABLE 4

SUMMARY OF FINAL RINSATE SAMPLES

SAMPLE NUMBER	QUANTITY	ANALYSIS	PRESERVATIVE
SL1209A	1 liter	Metals	Nitric Acid
SL1209B	1 liter	Sulfide	NaOH
SL1209C	1 liter	Nitrate, Chloride Sulfate, TOX	None
SL1209D	1 liter	Amer. Cyanide	NaOH
SL1209E	1 liter	Total Cyanide	NaOH
SL1209F	1 quart	Semi Volatiles 8270	None
SL1209G	1 quart	Semi Volatiles 8270	None
SL1209H	500 milliliters	TOC	H_2SO_4
SL1209I	1 vile	Volatile 8240	HC1
SL1209J	1 vile	Volatile 8240	HC1
SL0308A	1 liter	Metals	Nitric Acid
SL0308B	1 liter	Sulfide	NaOH
SL0308C	1 liter	Nitrate, Chloride Sulfate, TOX	None
SL0308D	1 liter	Amer. Cyanide	NaOH
SL0308E	1 liter	Total Cyanide	NaOH
SL0308F	1 quart	Semi Volatiles 8270	None
SL0308G	1 quart	Semi Volatiles 8270	None
SL0308H	500 milliliters	TOC	H_2SO_4
SL0308I	1 vile	Volatile 8240	HC1
SL0308J	1 vile	Volatile 8240	HC1

Sample numbers beginning with SL1209 were taken from the final rinsate of the Treatment Area.

Sample numbers beginning with SL0308 were taken from the final rinsate of the Storage Area.

TABLE 5

SUMMARY OF TEST PARAMETERS AND METHODS

PARAMETER	TEST METHODS (EPA SW-846)
Volatile Compounds	
Acetone	8240
Benzene	8240
Carbon Tetrachloride	8240
Chlorobenzene	8240
Chloroform	8240
1,1-Dichloroethane	8240
1,2-Dichloroethane	8240
Ethanol	8240
Methylene Chloride	8240
1,1,2,2-Trichloroethane	8240
Toluene	8240
1,1,1-Trichloroethane	8240
1,1,2-Trichloroethane	8240
Vinyl Chloride	8240
Xylene	8240
Semi-Volatile Compounds	
Aniline	8270
2-Methylphenol (o-cresol)	8270
4-Methylphenol (p-cresol)	8270
Naphthalene	8270
4-Nitroaniline	8270
Nitrobenzene	8270
Phenol	8270
Metals and Miscellaneous Compounds	
Chromium	7000
Cobalt	7000
Lead	7000
Magnesium	7000
Mercury	7000
Potassium	7000
Sodium	7000
Tin	7000
Aluminum	6010

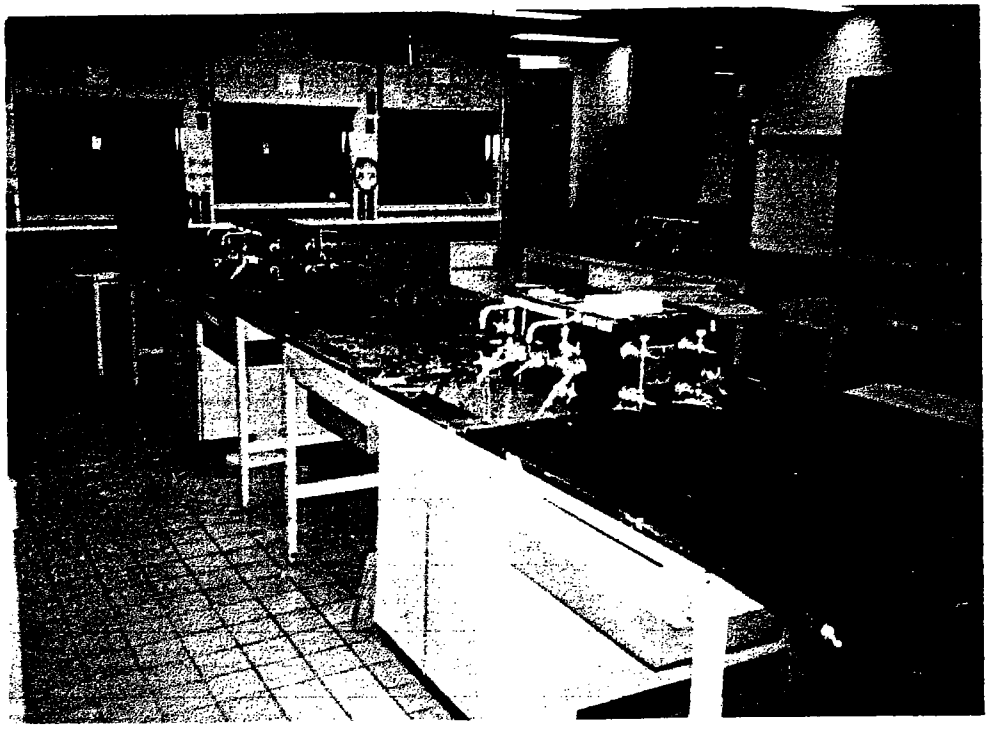
TABLE 5

SUMMARY OF TEST PARAMETERS AND METHODS (cont.)

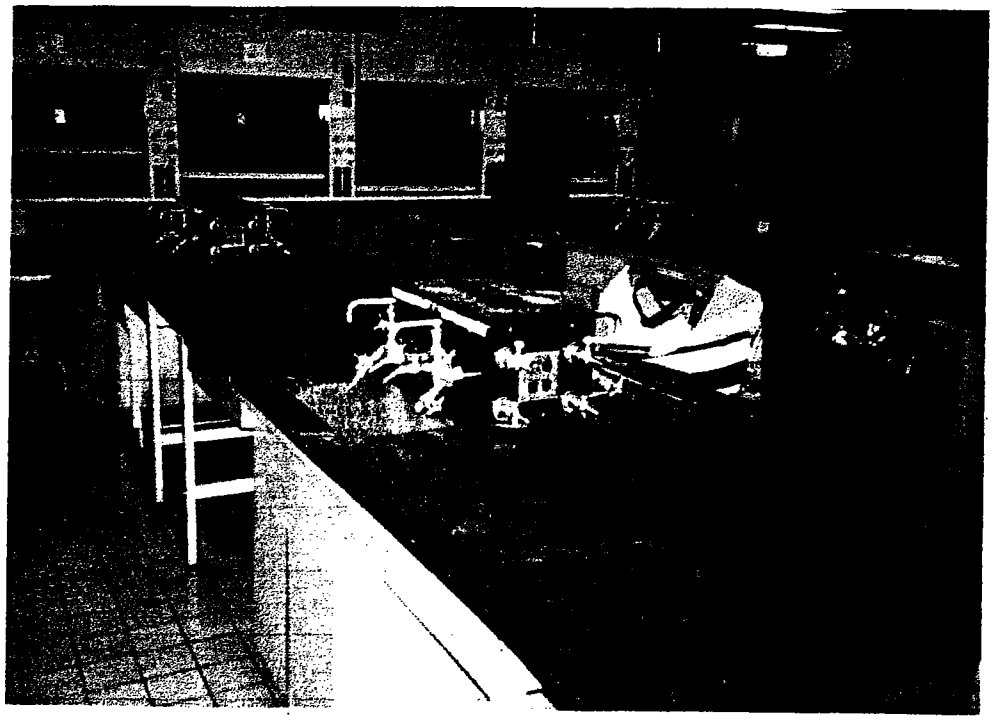
PARAMETER	TEST METHODS (EPA SW-846)
Barium	6010
Calcium	6010
Copper	6010
Iron	6010
Manganese	6010
Nickel	6010
Silver	6010
Total and Amenable Cyanide	9012
Total Organic Halides	9020
Sulfides	9030
Sulfate	9036
Total Organic Carbon	9060
Nitrate	9200
Chloride	9250

4.0 WASTE HANDLING

During the cleanup of the Treatment Area and Storage Area, the waste generated by pressure washing and rinsing was collected in 55-gallon drums. At the completion of the cleanup activities a total of 4 drums contained waste. Approximately 128 gallons of waste was generated by the Treatment Area cleanup and approximately 65 gallons of waste was generated during the Storage Area cleanup. Upon completion of the cleanup activities, the four drums, (one drum was half full) were sealed with the drum covers and metal security bands and temporarily placed in the Storage Area. The drums remained in the Storage Area until the results of the laboratory analysis were completed. The 4 drums were then transported to Chemical Waste Management's Trade Waste Incinerator in Sauget, Illinois where the contents were incinerated. Copies of the waste manifests are presented in Appendix D.

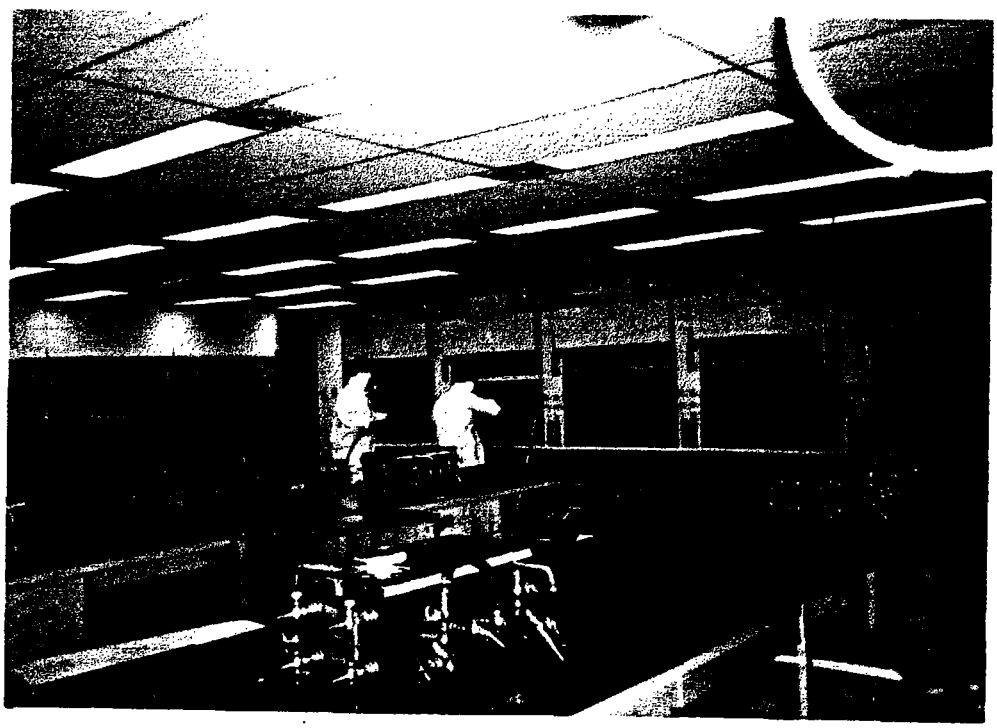


Treatment Area (SL 1209) prior to decontamination.

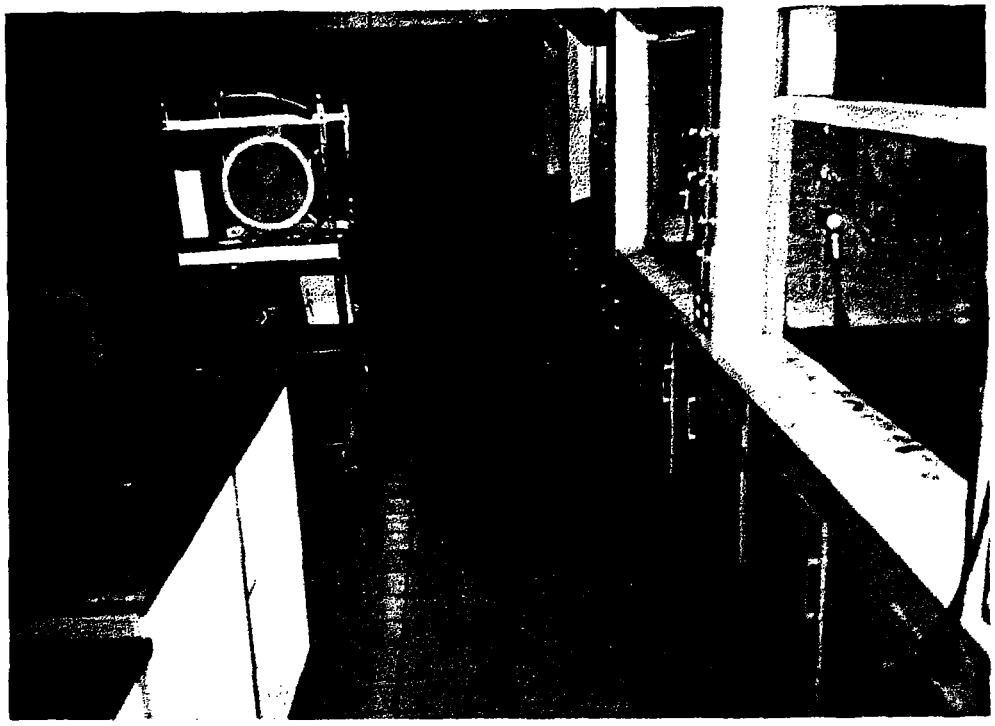


Treatment Area (SL 1209) prior to decontamination.

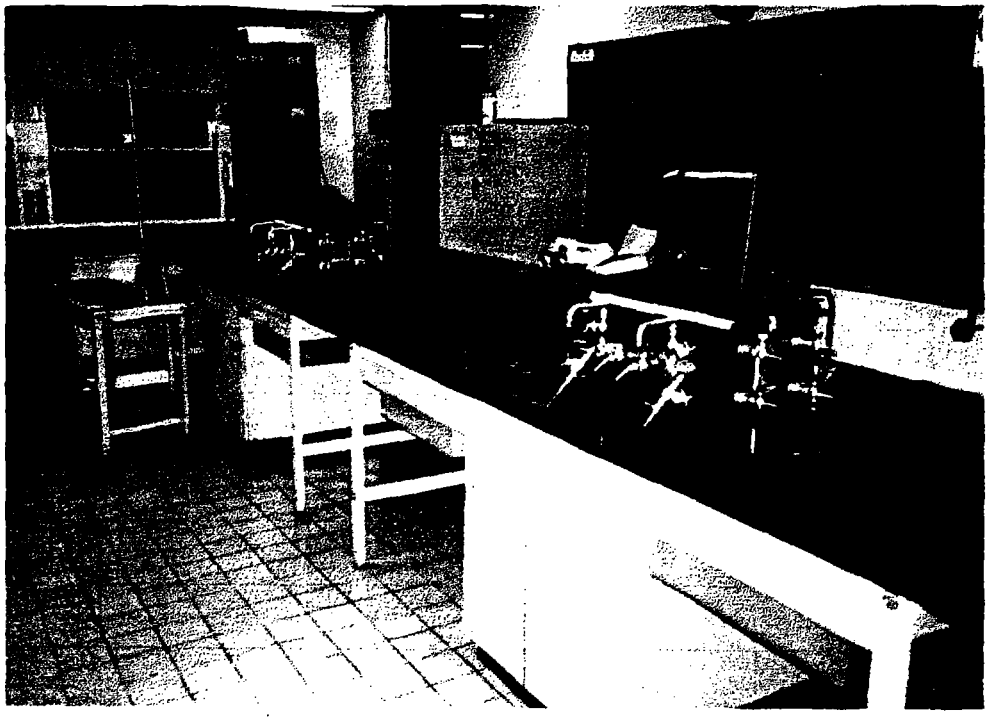
Scrubbing of Treatment Area (SL 1209) lab benches.



Pressure washing Treatment Area (SL 1209) fumehoods.

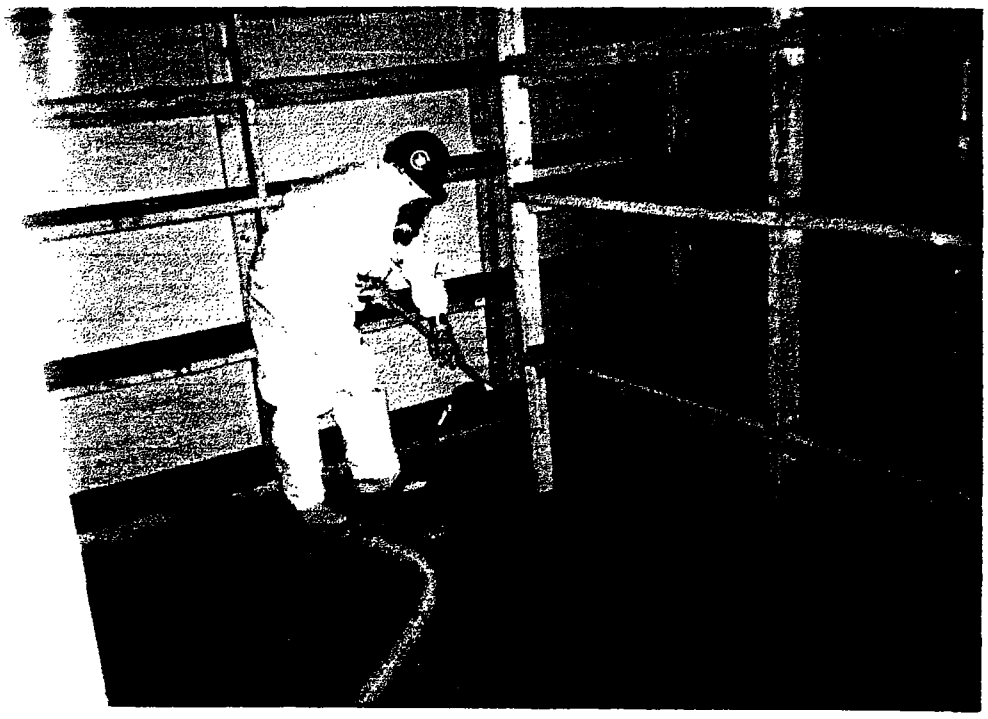


Treatment Area (SL 1209) after decontamination.



Treatment Area (SL 1209) after decontamination.

Storage Area (SL 0308) before decontamination.



Vacuuming rinsate from Storage Area (SL 0308) floor.

Storage Area (SL 0308) after decontamination.

Storage Area (SL 0308) after decontamination.

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043
(314) 427-0550

CUSTODY TRANSFER RECORD/LABORATORY WORK REQUEST

COMPANY Chemical Waste Management
ADDRESS 7850 W. College Drive
CITY/STATE/ZIP Palos Heights IL 60463
PHONE (708) 361-7513

CONTACT Pete Johnson
DATE 10-2-92
DUE DATE 11-12-92
FAX ( )

PROJECT NO. 92-09-670
P.O. NO. 117171

Page 1 of 1

SPECIAL INSTRUCTIONS: (Normal TAT)

SAMPLE IDENTIFICATION / ANALYSES REQUESTED

ITEM	LAB NO.	SITE CODE/ SAMPLE DESCRIPTION	DATE COLLECTED	PRESERV.	CONTAINER	Metals*	Sulfide	Nitrate Chloride	Sulfate TDS	Hexavalent Cr	Total Cn	BNA 8270	TOC	VOC 8240	Ethylene Glycol	COMMENTS
1	9211014	SL-0 1A Rinsate	10-30-92	Nitric	1 plastic liter	X										
2		B		NaOH	1 plast liter		X									Metals*
3		C		NA	1 plast liter			X	X							by 7000
4		D		Sodium Hydrox	1 plast liter					X						Cr, Co, Ti, Mg, K, Mn,
5		E		Sodium Hydrox	1 plast liter						X					
6		F-G		NA	2 glass QRT							X				Metals by 6010*
7		H		Sulfuric	4 oz Jar								X			Al, Ba, Ca, Cu, Fe, Mg, Mn,
8		I-J		HCl	2 40 ml vial									X	X	Ag, Zn
9	9211015	SL-0308 A Rinsate		Nitric	plast liter	X										
10		B		NaOH	plast liter		X									
11		C		NA	plast liter			X	X							
12		D		Sodium	plast liter					X						
13		E		Sodium	plast liter						X					
14		F-G		NA	2 glass QRT							X				
15		H		Sulfuric	4 oz Jar								X			
16		I-J		HCL	2 40 ml vial									X	X	

ITEMS TRANSFERRED	RELINQUISHED BY	Date	Time	RECEIVED BY	Date	Time	REASON for TRANSFER
18				[illegible]	11-2	9:10	Tag [illegible]
8416	[illegible]	11-2	1:15	[illegible]	11/2/92	1:15	FOR
8416	[illegible]	11/3/92	12:30	K Coons	11-3-92	12:30	[illegible]
6	[illegible]	11-4	800	[illegible]	11-4	8:00	Lab
6, 14	[illegible]	11-4	[illegible]	[illegible]	11-4	[illegible]	

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043
(314) 427-0550

CUSTODY TRANSFER RECORD/LABORATORY WORK REQUEST

COMPANY Chem Waste Management CONTACT Pete Johnson PROJECT NO. 92-09-870
ADDRESS 7250 W College Drive DATE 10/30/92 P.O. NO.
CITY/STATE/ZIP Palos Heights, IL 60463 DUE DATE 8 to 10 Days
PHONE 708) 361-7513 FAX (708) 361-8431

SPECIAL INSTRUCTIONS:

SAMPLE IDENTIFICATION / ANALYSES REQUESTED

ITEM	LAB NO.	SITE CODE/ SAMPLE DESCRIPTION	DATE COLLECTED	PRESERV.	CONTAINER	Metals	Sulfide	Nitrate Cl Sulfate	Amen Cyanide	Total "	Semi-Volatile	8270	TOC	Volatile	8240	COMMENTS
1	~~SL1209A~~	SL1209 A Rinsate	10/30/92	Nitric Acid	Plastic L	X										
2		SL1209 B "		Na OH			X									
3		SL1209 C "						X								
4		SL1209 D "		Na OH					X							
5		SL1209 E "		Na OH						X						
6		SL1209 F "			Glass Qt						X					
7		SL1209 G "									X					
8		SL1209 H "		H_2SO_4	Glass 500ml							X				
9		SL1209 I "		HCl	Glass Vile								X			
10		SL1209 J "		HCl									X			
11		SL0308 A "		Nitric Acid	Plastic Lite	X										
12		SL0308 B "		Na OH			X									
13		SL0308 C "						X								
14		SL0308 D "		Na OH					X							
15		SL0308 E "		Na OH						X						
16		SL0308 F "			Glass Qt						X					

ITEMS TRANSFERRED	RELINQUISHED BY	Date	Time	RECEIVED BY	Date	Time	REASON for TRANSFER
16	Jay Rosso	10/30/92	1630	[illegible]	10/30/92	435	
	[illegible]	10/30/92	5:30	[illegible]	10/30	5:30	

ENVIRONMETRICS

2345 Millpark Drive
Maryland Heights, MO 63043
(314) 427-0550

CUSTODY TRANSFER RECORD/LABORATORY WORK REQUEST

COMPANY Chem Waste Management CONTACT Pete Johnson PROJECT NO. 92-09-870
ADDRESS 7250 W College Drive DATE 10/30/92 P.O. NO.
CITY/STATE/ZIP Palos Heights, IL 60463 DUE DATE 8 TO 10 DAYS
PHONE (708) 361-7513 FAX (708) 361-8431

SPECIAL INSTRUCTIONS:

SAMPLE IDENTIFICATION / ANALYSES REQUESTED

ITEM	LAB NO.	SITE CODE/ SAMPLE DESCRIPTION	DATE COLLECTED	PRESERV.	CONTAINER	Semi-Volatile 8270		TOC	Volatile 8240							COMMENTS
1		SL0308G / Rinsate	10/30/92		Glass Qt	X										
2		SL0308H / "		H_2SO_4	Glass 500ml			X								
3		SL0308I / "		HCl	Glass Vik				X							
4		SL0308J / "		HCl					X							
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																

ITEMS TRANSFERRED	RELINQUISHED BY	Date	Time	RECEIVED BY	Date	Time	REASON for TRANSFER
4	[illegible]	10/30/92	1630	[illegible]	10/30/92	4:35	
	[illegible]	10/30/92	5:30	[illegible]	10/30	5:30	

ENVIRONMETRICS

2345 Millpark Drive
Maryland Heights, MO 63043
(314) 427-0550

CUSTODY TRANSFER RECORD/LABORATORY WORK REQUEST

COMPANY _____ CONTACT _____ PROJECT NO. _____ Page ____ of ____

ADDRESS _____ DATE _____ P.O. NO. _____

CITY/STATE/ZIP _____ DATE DUE _____

SPECIAL INSTRUCTIONS: _____

ITEMS TRANSFERRED	RELINQUISHED BY	Date	Time	RECEIVED BY	Date	Time	REASON for TRANSFER
	[illegible]	11/4	10:30	[illegible]	11-4	10:30	[illegible]
~~HB Smith~~ #1004 + 1005	[illegible]	11/4	15:05	HB Smith	4 Nov	15:05	TOXs
#1004 + #1005	H. B. Smith	5 Nov	11:16	[illegible]	11-5	11:16	TOX complete
1-5 12-13	[illegible]	6 Nov	11:45	[illegible]	11-6	11:45	Ammonia
1-5, 12-13	[illegible]	11-13	9:25	[illegible]	11-13	9:25	Complete

DISTRIBUTION: WHITE - Sample Custodian PINK - Project Manager YELLOW - Records GOLD - Field Copy

Chemical Waste Management, Inc.

AO 842
Profile #

WASTE PROFILE

Test for TWI

☐ Check here if this is a Recertification

LOCATION OF ORIGINAL 1190255002

ENR

GENERAL INFORMATION

1. GENERATOR NAME: Southern Ill Univ - Edwardsville Generator USEPA ID: ILD006331342
2. Generator Address: Southern Illinois University at Edwardsville, Box 1657 Billing Address: ☐ Same Chem Waste Management 7250 W College Drive Palos Heights, IL 6046
3. Technical Contact/Phone: David McDonald, 618 692-3584
4. Alternate Contact/Phone: Billing Contact/Phone: (708) 361-8400

PROPERTIES AND COMPOSITION

5. Process Generating Waste: WASH & RINSE CHEMICAL LAB.
6. Waste Name: RINSate WATER

7A. Is this a USEPA hazardous waste (40 CFR Part 261)? Yes ☐ No ☒
B. Identify ALL USEPA listed and characteristic waste code numbers (D,F,K,P,U): _____ State Waste Codes: _____

8. Physical State @ 70°F: A. Solid ☐ Liquid ☒ Both ☐ B. Single Layer ☐ Multilayer ☐ C. Free liquid range _____ to _____

9A. pH: Range 7 to 10 or Not applicable ☐ B. Strong Odor ☐; describe _____

10. Liquid Flash Point: < 73°F ☐ 73-99°F ☐ 100-139°F ☐ 140-199°F ☐ ≥ 200°F ☒ N.A. ☐ Closed Cup ☐ Open Cup ☐

11. CHEMICAL COMPOSITION: List ALL constituents (including halogenated organics) present in any concentration and forward available analysis.

Constituents	Range	Units	Constituents	Range	Units
WATER	90-100%				
Detergent (SIMPLE GREEN)	0-10%				

TOTAL COMPOSITION MUST EQUAL OR EXCEED 100%

12. OTHER: PCBs if yes, concentration ____ ppm. PCBs regulated by 40 CFR 761 ☐. Pyrophoric ☐ Explosive ☐ Radioactive
Benzene if yes, concentration ____ ppm. Shock Sensitive ☐ Oxidizer ☐ Carcinogen ☐ Infectious ☐ Other _____

13. If the waste is subject to the land ban and meets the treatment standards, check here: ____ and supply analytical results where applicable.

SHIPPING INFORMATION

14. PACKAGING: Bulk Solid ☐ Bulk Liquid ☐ Drum ☒ Type/Size: METAL / 55gal Other _____
15. ANTICIPATED ANNUAL VOLUME: 4 Units: DRUMS Shipping Frequency: ONE TIME

SAMPLING INFORMATION

16a. Sample source (drum, lagoon, pond, tank, vat, etc.) Drums
Date Sampled: 10/30/92 Sampler's Name/Company: Jay Ross / CWM - RSMW

16b. Generator's Agent Supervising Sampling: _____ 17. ☐ No sample required (See instructio

GENERATOR'S CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representa as defined in 40 CFR 261, Appendix I) or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator been disclosed. I authorize CWM to obtain a sample from any waste shipment for purposes of recertification.

David E. McDonald — Signature
David E. McDonald — Printed (or typed) name and title
10/30/92 — Date

~~INDUSTRIAL HYGIENE~~ Waste Sample
CHAIN OF CUSTODY RECORD

Site: Southern Ill Univ - Carbondale

Collectors Name: Jim Ross Telephone (618) 271-2804

Site Sample Number	Date Sampled	Sample Description/Source
D08422	10/30/92	2 QTS. Rinse Water

Sample(s) Submitted to:

1. CWM - Riverdale Tech Center
Name of Organization

2. _____
Name of Organization

Chain of Possession:

	Signature	Title	Inclusive dates
1.	[illegible]	Coordinator	10-30-92
2.	Jim Ross	Project Coordinator	10-30-92
3.			
4.			
5.			

Also see site/sample shipping/receiving logs.

ENRAC Midwest Form L (6/29/90)

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043
(314) 427-0550

CHEMICAL WASTE MANAGEMENT
7250 WEST COLLEGE DRIVE
PALOS HEIGHTS, IL 60463

ATTN: PETE JOHNSON

INVOICE # 19248
PO # 119171
PROJECT # 92-09-870

ANALYSIS RESULTS

SAMPLE ID: SL1209 A RINSATE
LAB ID: 9211004

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS
METALS ANALYSIS	SW-846 6010	TOTAL
ALUMINUM		2.4 mg/l
BARIUM		0.101
CALCIUM		36.1
CHROMIUM		0.042
COBALT		<0.050
COPPER		0.239
IRON		1.89
LEAD		<0.100
MAGNESIUM		8.83
MANGANESE		0.080
NICKEL		0.077
SILVER		<0.040
SODIUM		74.0
TIN		<0.500
ZINC		1.77
POTASSIUM	SW-846 7610	8.5

NOVEMBER 13, 1992

WAYNE L. COOPER
LABORATORY DIRECTOR

ENVIRONMETRICS
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(314) 427-0550

CHEMICAL WASTE MANAGEMENT
7250 WEST COLLEGE DRIVE
PALOS HEIGHTS, IL 60463

ATTN: PETE JOHNSON

INVOICE # 19248
PO # 119171
PROJECT # 92-09-870

ANALYSIS RESULTS

SAMPLE ID: SL1209 RINSATE
LAB ID: 9211004

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	
CHLORIDE (SL1209C)	EPA 325.3	24.3	mg/l
TOTAL CYANIDE (SL1209E)	EPA 335.2	<0.01	mg/l
CYANIDE, AMENABLE TO CHLORINATION (SL1209D)	EPA 335.2	<0.01	mg/l
NITRATE (SL1209C)	EPA 353.3	1.55	mg/l
SULFATE (SL1209C)	EPA 375.4	86	mg/l
SULFIDE (SL1209B)	EPA 376.1	<0.01	mg/l
TOTAL ORGANIC HALOGENS (SL1209C)	SW-846 9020	0.333	mg/l
TOTAL ORGANIC CARBON (SL1209H)	EPA 415.2	52.5	mg/l

NOVEMBER 13, 1992

WAYNE L. COOPER
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CHEMICAL WASTE MANAGEMENT
7250 WEST COLLEGE DRIVE
PALOS HEIGHTS, IL 60463

ATTN: PETE JOHNSON

INVOICE # 19248
PO # 119171
PROJECT # 92-09-870

ANALYSIS RESULTS

SAMPLE ID: SL0308 A RINSATE
LAB ID: 9211005

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS
METALS ANALYSIS	SW-846 6010	TOTAL
ALUMINUM		2.4 mg/l
BARIUM		0.128
CALCIUM		43.4
CHROMIUM		0.097
COBALT		<0.050
COPPER		0.252
IRON		5.64
LEAD		<0.100
MAGNESIUM		12.7
MANGANESE		0.127
NICKEL		0.048
SILVER		<0.040
SODIUM		74.3
TIN		<0.5
ZINC		3.050
POTASSIUM	SW-846 7610	10.1

NOVEMBER 13, 1992

WAYNE L. COOPER
LABORATORY DIRECTOR

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CHEMICAL WASTE MANAGEMENT
7250 WEST COLLEGE DRIVE
PALOS HEIGHTS, IL 60463

ATTN: PETE JOHNSON

INVOICE # 19248
PO # 119171
PROJECT # 92-09-870

ANALYSIS RESULTS

SAMPLE ID: SL0308 RINSATE
LAB ID: 9211005

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	
CHLORIDE (SL0308C)	EPA 325.3	32.8	mg/l
TOTAL CYANIDE (SL0308E)	EPA 335.2	<0.01	mg/l
CYANIDE, AMENABLE TO CHLORINATION (SL0308D)	EPA 335.2	<0.01	mg/l
NITRATE (SL0308C)	EPA 353.3	2.75	mg/l
SULFATE (SL0308C)	EPA 375.4	88	mg/l
SULFIDE (SL0308B)	EPA 376.1	0.08	mg/l
TOTAL ORGANIC HALOGENS (SL0308C)	SW-846 9020	0.519	mg/l
TOTAL ORGANIC CARBON (SL0308H)	EPA 415.2	39.3	mg/l

NOVEMBER 13, 1992

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7250 WEST COLLEGE DRIVE
PALOS HEIGHTS, IL 60463

ATTN: PETE JOHNSON

INVOICE # 19248
PO # 119171
PROJECT # 92-09-870

ANALYSIS RESULTS
METHOD SW-846 8015

SAMPLE ID: SL1209 I-J RINSATE
LAB ID: 9211004

COMPOUND	PRACTICAL QUANTITATION LIMIT	RESULT
ETHANOL	5 mg/l	U mg/l

NOVEMBER 13, 1992

WAYNE L. COOPER
LABORATORY DIRECTOR

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7250 WEST COLLEGE DRIVE
PALOS HEIGHTS, IL 60463

ATTN: PETE JOHNSON

INVOICE # 19248
PO # 119171
PROJECT # 92-09-870

ANALYSIS RESULTS
METHOD SW-846 8015

SAMPLE ID: SL0308 I-J RINSATE
LAB ID: 9211005

COMPOUND	PRACTICAL QUANTITATION LIMIT	RESULT
ETHANOL	5 mg/l	U mg/l

NOVEMBER 13, 1992

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(314) 427-0550

CHEMICAL WASTE MANAGEMENT
7250 WEST COLLEGE DRIVE
PALOS HEIGHTS, IL 60463

ATTN: PETE JOHNSON

INVOICE # 19248
PO # 119171
PROJECT # 92-09-870

VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

SAMPLE ID: METHOD BLANK
LAB ID: VBLK307A

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/l	U µg/l
74-83-9	Bromomethane	10	U
85-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	100	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	100	U
107-13-1	Acrylonitrile	100	U
75-69-04	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (Total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

NOVEMBER 13, 1992

DATE COLLECTED : ---
DATE RECEIVED : ---
DATE ANALYZED : 11/02/92

WAYNE L. COOPER
LABORATORY DIRECTOR

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043
(314) 427-0550

CHEMICAL WASTE MANAGEMENT
7250 WEST COLLEGE DRIVE
PALOS HEIGHTS, IL 60463

ATTN: PETE JOHNSON

INVOICE # 19248
PO # 119171
PROJECT # 92-09-870

VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

SAMPLE ID: SL1209 I-J RINSATE
LAB ID: 9211004

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/l	U µg/l
74-83-9	Bromomethane	10	U
85-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	7
67-64-1	Acetone	100	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	100	U
107-13-1	Acrylonitrile	100	U
75-69-04	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (Total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U

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NOVEMBER 13, 1992

DATE COLLECTED : 10/30/92
DATE RECEIVED : 11/02/92
DATE ANALYZED : 11/02/92

WAYNE L. COOPER
LABORATORY DIRECTOR

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043
(314) 427-0550

CHEMICAL WASTE MANAGEMENT
7250 WEST COLLEGE DRIVE
PALOS HEIGHTS, IL 60463

ATTN: PETE JOHNSON

INVOICE # 19248
PO # 119171
PROJECT # 92-09-870

VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

SAMPLE ID: SL0308 I-J RINSATE
LAB ID: 9211005

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/l	U µg/l
74-83-9	Bromomethane	10	U
85-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	8
67-64-1	Acetone	100	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	100	U
107-13-1	Acrylonitrile	100	U
75-69-04	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (Total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U

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NOVEMBER 13, 1992

DATE COLLECTED : 10/30/92
DATE RECEIVED : 11/02/92
DATE ANALYZED : 11/02/92

WAYNE L. COOPER
LABORATORY DIRECTOR

ENVIRONMETRICS
2345 Millpark Drive
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(314) 427-0550

CHEMICAL WASTE MANAGEMENT
7250 WEST COLLEGE DRIVE
PALOS HEIGHTS, IL 60463

ATTN: PETE JOHNSON

INVOICE # 19248
PO # 119171
PROJECT # 92-09-870

SEMIVOLATILE ORGANIC COMPOUNDS
METHOD SW-846 8270
PAGE ONE

SAMPLE ID: METHOD BLANK
LAB ID: WSBLK2734

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	10 µg/l	U µg/l
108-95-2	Phenol	10	U
111-44-4	bis(2-chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	o-Cresol	10	U
39638-32-9	bis-(2-Chloro2propyl)Ether	10	U
106-44-5	m & p-Cresol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
103-33-3	Azobenzene	10	U
28-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U

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ATTN: PETE JOHNSON

INVOICE # 19248
PO # 119171
PROJECT # 92-09-870

SEMIVOLATILE ORGANIC COMPOUNDS
METHOD SW-846 8270
PAGE TWO

SAMPLE ID: METHOD BLANK
LAB ID: WSBLK2734

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	50 µg/l	U µg/l
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenol phenyl ether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
92-87-4	Benzidine	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	17B
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

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NOVEMBER 13, 1992

DATE COLLECTED : ---
DATE RECEIVED : ---
DATE EXTRACTED : 11/04/92
DATE ANALYZED : 11/09/92

WAYNE L. COOPER
LABORATORY DIRECTOR

ENVIRONMETRICS
2345 Millpark Drive
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(314) 427-0550

CHEMICAL WASTE MANAGEMENT
7250 WEST COLLEGE DRIVE
PALOS HEIGHTS, IL 60463

ATTN: PETE JOHNSON

INVOICE # 19248
PO # 119171
PROJECT # 92-09-870

SEMIVOLATILE ORGANIC COMPOUNDS
METHOD SW-846 8270
PAGE ONE

SAMPLE ID: SL1209 F-G RINSATE
LAB ID: 9211004

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	12 µg/l	U µg/l
108-95-2	Phenol	12	U
111-44-4	bis(2-chloroethyl)Ether	12	U
95-57-8	2-Chlorophenol	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
100-51-6	Benzyl Alcohol	12	U
95-50-1	1,2-Dichlorobenzene	12	U
95-48-7	o-Cresol	12	U
39638-32-9	bis-(2-Chloro2propyl)Ether	12	U
106-44-5	m & p-Cresol	12	U
621-64-7	N-Nitroso-Di-n-propylamine	12	U
67-72-1	Hexachloroethane	12	U
98-95-3	Nitrobenzene	12	8J
78-59-1	Isophorone	12	U
88-75-5	2-Nitrophenol	12	10J
105-67-9	2,4-Dimethylphenol	12	U
65-85-0	Benzoic Acid	59	120
111-91-1	bis(2-Chloroethoxy)methane	12	U
120-83-2	2,4-Dichlorophenol	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U
91-20-3	Naphthalene	12	U
106-47-8	4-Chloroaniline	12	U
87-68-3	Hexachlorobutadiene	12	U
59-50-7	4-Chloro-3-methylphenol	12	U
91-57-6	2-Methylnaphthalene	12	U
77-47-4	Hexachlorocyclopentadiene	12	U
88-06-2	2,4,6-Trichlorophenol	12	U
95-95-4	2,4,5-Trichlorophenol	59	U
91-58-7	2-Chloronaphthalene	12	U
88-74-4	2-Nitroaniline	59	12J
131-11-3	Dimethylphthalate	12	U
103-33-3	Azobenzene	12	U
28-96-8	Acenaphthylene	12	U
606-20-2	2,6-Dinitrotoluene	12	U
99-09-2	3-Nitroaniline	59	U
83-32-9	Acenaphthene	12	U
51-28-5	2,4-Dinitrophenol	59	U

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CHEMICAL WASTE MANAGEMENT
7250 WEST COLLEGE DRIVE
PALOS HEIGHTS, IL 60463

ATTN: PETE JOHNSON

INVOICE # 19248
PO # 119171
PROJECT # 92-09-870

SEMIVOLATILE ORGANIC COMPOUNDS
METHOD SW-846 8270
PAGE TWO

SAMPLE ID: SL1209 F-G RINSATE
LAB ID: 9211004

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	59 µg/l	U µg/l
132-64-9	Dibenzofuran	12	U
121-14-2	2,4-Dinitrotoluene	12	U
84-66-2	Diethylphthalate	12	4J
7005-72-3	4-Chlorophenol phenyl ether	12	U
86-73-7	Fluorene	12	U
100-01-6	4-Nitroaniline	59	U
534-52-1	4,6-Dinitro-2-methylphenol	59	U
86-30-6	N-Nitrosodiphenylamine	12	U
101-55-3	4-Bromophenyl phenyl ether	12	U
118-74-1	Hexachlorobenzene	12	U
87-86-5	Pentachlorophenol	59	7J
85-01-8	Phenanthrene	12	U
120-12-7	Anthracene	12	U
84-74-2	Carbazole	12	U
84-74-2	Di-n-butylphthalate	12	8J
206-44-0	Fluoranthene	12	2J
92-87-4	Benzidine	12	U
129-00-0	Pyrene	12	U
85-68-7	Butylbenzylphthalate	12	10J
91-94-1	3,3'-Dichlorobenzidine	12	U
56-55-3	Benzo(a)anthracene	12	U
218-01-9	Chrysene	12	U
117-81-7	bis(2-Ethylhexyl)phthalate	12	28B
117-84-0	Di-n-octylphthalate	12	2J
205-99-2	Benzo(b)fluoranthene	12	U
207-08-9	Benzo(k)fluoranthene	12	U
50-32-8	Benzo(a)pyrene	12	U
193-39-5	Indeno(1,2,3-cd)pyrene	12	U
53-70-3	Dibenzo(a,h)anthracene	12	U
191-24-2	Benzo(g,h,i)perylene	12	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 10/30/92
DATE RECEIVED : 11/02/92
DATE EXTRACTED : 11/04/92
DATE ANALYZED : 11/09/92

NOVEMBER 13, 1992

WAYNE L. COOPER
LABORATORY DIRECTOR

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043
(314) 427-0550

CHEMICAL WASTE MANAGEMENT
7250 WEST COLLEGE DRIVE
PALOS HEIGHTS, IL 60463

ATTN: PETE JOHNSON

INVOICE # 19248
PO # 119171
PROJECT # 92-09-870

SEMIVOLATILE ORGANIC COMPOUNDS
METHOD SW-846 8270
PAGE ONE

SAMPLE ID: SL0308 F-G RINSATE
LAB ID: 9211005

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	11 µg/l	U µg/l
108-95-2	Phenol	11	26
111-44-4	bis(2-chloroethyl)Ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
100-51-6	Benzyl Alcohol	11	6J
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	o-Cresol	11	U
39638-32-9	bis-(2-Chloro2propyl)Ether	11	U
106-44-5	m & p-Cresol	11	U
621-64-7	N-Nitroso-Di-n-propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	6J
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	6J
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic Acid	1,400	440J
111-91-1	bis(2-Chloroethoxy)methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	54	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	54	9J
131-11-3	Dimethylphthalate	11	U
103-33-3	Azobenzene	11	120
28-96-8	Acenaphthylene	11	U
606-20-2	2,6-Dinitrotoluene	11	U
99-09-2	3-Nitroaniline	54	9J
83-32-9	Acenaphthene	11	U
51-28-5	2,4-Dinitrophenol	54	U

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SEMIVOLATILE ORGANIC COMPOUNDS
METHOD SW-846 8270
PAGE TWO

SAMPLE ID: SL0308 F-G RINSATE
LAB ID: 9211005

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	54 µg/l	U µg/l
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	4J
7005-72-3	4-Chlorophenol phenyl ether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	54	U
534-52-1	4,6-Dinitro-2-methylphenol	54	U
86-30-6	N-Nitrosodiphenylamine	11	U
101-55-3	4-Bromophenyl phenyl ether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	54	140
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Carbazole	11	U
84-74-2	Di-n-butylphthalate	11	48
206-44-0	Fluoranthene	11	U
92-87-4	Benzidine	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	2J
91-94-1	3,3'-Dichlorobenzidine	11	U
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	270	420B
117-84-0	Di-n-octylphthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenzo(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

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WAYNE L. COOPER
LABORATORY DIRECTOR

State Form LPC 62 8/81 IL532-0610

AND SPECIAL WASTE

NOTE: FORM DESIGNED TO PRINT 8 LINES PER INCH. EPA Form 8700-22 (Rev. 6-89) Form Approved. OMB No. 2050-0039, Expires 6-30-92

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. ILD006331342 Manifest Document No. 10001

2. Page 1. 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois Law.

3. Generator's Name and Mailing Address: SOUTHERN ILLINOIS UNIVERSITY - EDWARDSVILLE, BOX 1657 2102 RENDLEMAN BLD. EDWARDSVILLE IL 62026

Location if Different:

24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS (205) 652-9721

5. Transporter 1 Company Name: BEELMAN TRUCKING

6. US EPA ID Number: ILD007814825

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address: TRADE WASTE INCINERATION, 7 MOBILE AVE, SAUGET IL 62201

10. US EPA ID Number: ILD098642424

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. NON-HAZARDOUS RINSATE WATER	004	DM	000220	G
b.				
c.				
d.				

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed / Typed Name: David E McDonald Signature: David E. McDonald Date: Month 12 Day 04 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name: WILLIE HALL Signature: Willie Hall Date: Month 12 Day 04 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed / Typed Name Signature Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hardous materials covered by this manifest except as noted in item 19.

Printed / Typed Name Signature Date: Month Day Year

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1 TSD MAIL TO GENERATOR COPY

In case of a spill call the Illinois Office of Emergency Response at 217/782-7860 and the National Response Center at 800/424-8802 or 202/426-2675.

RECEIVED
MAR 30 1993
CENTRAL
DISTRICT OFFICE